



Sachet and stick solutions
for the **pharmaceutical** industry

Clever Technology




SINCE 1965

We have been manufacturing packaging technology and solutions for the pharmaceutical industry, for over 50 years.



Universal Pack is an international point of reference when it comes to the design and manufacture of vertical machines and fully automatic lines for single dose packaging in the pharmaceutical, chemical, cosmetic and food industries. Thanks to the continuous exchange of information with our customers, with always an eye on the needs of end consumers, we can offer cutting-edge solutions for any type of flexible packaging: stick-packs, sachets sealed on all four sides, shaped packs and cartons.



market has to offer in design software and to a production facility with the latest generation CNC. All is interconnected by means of an OPC (Open Platform Communications) protocol to guarantee ultimate precision of components and constant availability of spare parts. Project management is based on an internal process that allows information to be shared, design reviews to be immediately effective and saved and customers to be constantly informed on the latest updates. Before leaving our production facilities, each machine undergoes stringent quality checks, heavy duty tests and Failure Mode and Effect Analysis (FMEA), which focus on granting the required performance and the maximum level of reliability, safety and integration



Efficiency, versatility and reliability are our strong points.

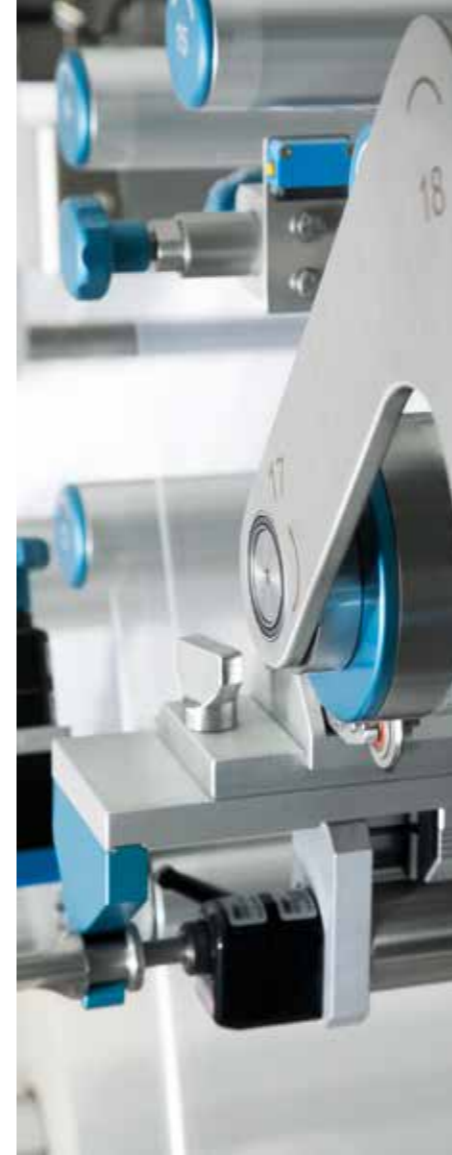
In over 50 years spent on the field, we have built a know-how that can now offer proven solutions to pack pharmaceutical products. Universal Pack produces state of the art technology for primary and secondary packaging. Our systems are built in compliance with a 4.0 logic for interconnection of processes and centralisation of information. Our aim is to guarantee total traceability of materials and high standards of quality in terms of efficiency, reliability and durability. We build over 80% of the parts in-house, thanks to the best the

with the customer's MES (Manufacturing Execution System) for analysis of big data. Today, Universal Pack's ALFA (stick-packs), GAMMA (sachets sealed on 4 sides), THETA (sachets sealed on 4 sides) and DELTA (cartons) series, are synonymous of Made in Italy quality all over the world.

Stick-Pack Technology

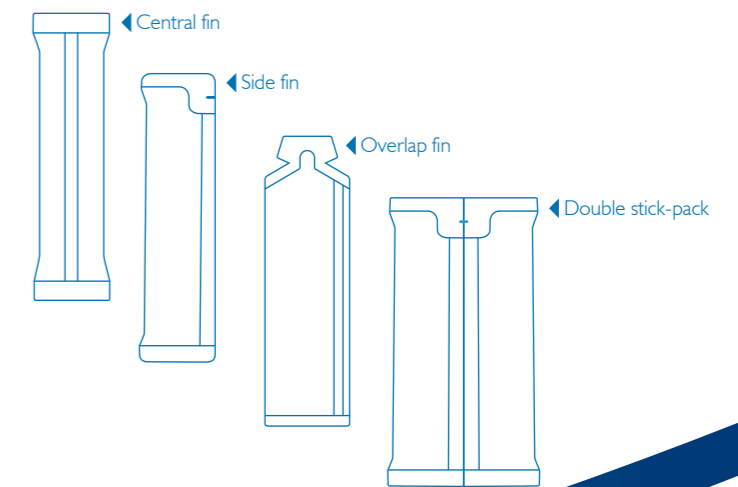


Stick-packs are recommended for packing liquids, gels, powders and granules in single dose format. This type of package offers an excellent level of flexibility in terms of size and design: in addition to a broad variety of different shapes, it can be customised to create packs with a great visual impact. The possibility to use a wide range of laminated film types allows you to obtain the maximum packaging quality and the highest standard of protection of contents.



Fast and accessible

Our technology for packaging stick-packs has been designed to fulfil the highest production standards both in terms of quality and of speed. It also guarantees the maximum level of modularity when it comes to size changeovers and accessibility for cleaning and maintenance. Design based on principles of hygienic design and on the possibility to isolate the packaging environment allows us to build compact machines, made of stainless steel, to provide adequate solutions to the hygienic issues of the sector and for the intended uses, thanks also to the possibility to handle any kind of laminated film. Special attention has been dedicated to the use of multi-layer recyclable materials.



Sachet technology

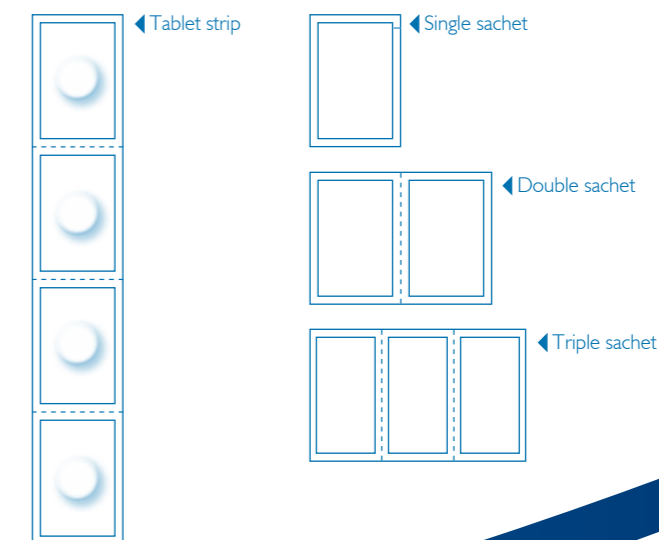


Sachets sealed on four sides are ideal for packing powders, granules, gels, liquids and viscous products as well as tablets. A wide range of sizes and customisation options makes it easy to find suitable solutions for any technical and aesthetic requirement. Thanks to the great variety of materials that can be used for the package, finding the right option for protection and preservation of the content is simple.



Clean and accurate

Gamma and Theta vertical continuous motion packaging machines are the expression of Universal Pack technology for 4-side-seal sachets. These are automatic machines designed to offer a high production speed. They call for less maintenance with respect to the plate technology, they are easy to access for cleaning and allow for very quick changeovers. Compact machines, made of stainless steel, designed in compliance with the most stringent hygienic design criteria for the pharmaceutical and food industries. They can work with any kind of laminated product and feature an isolated packaging environment. Special attention has been dedicated to the use of multi-layer recyclable materials.



Carton technology

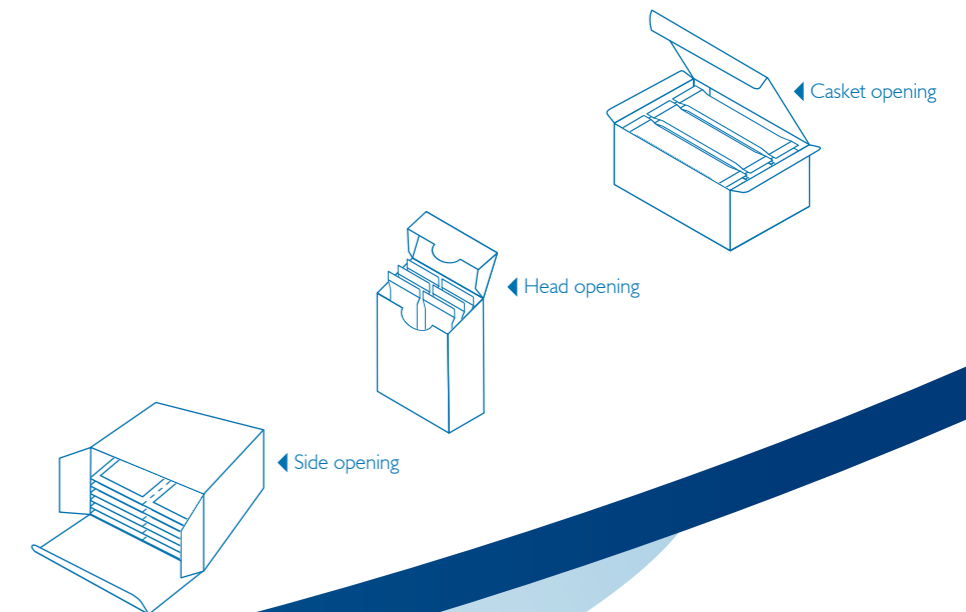


Our expertise in the field of automatic cartoning machines for the pharmaceutical industry allows us to handle any type of carton, from flat blanks to pre-glued cartons. Great flexibility in handling different sizes and die-cuts, added to maximum compatibility for interfacing other with end-of-line systems (internal separators, leaflets, barcodes, tamper-evident seals and so on) are the strong points of Universal Pack secondary packaging technology.



Simple and solid

Compact automatic cartoning machines and carton forming and closing systems of the DELTA series have been designed to combine a high production speed to the utmost ease-of-use and easy accessibility for cleaning and maintenance. Universal Pack is the single supplier of complete lines, thanks to its exceptional experience in engineering customised solutions for primary and secondary packaging; at the same time, Universal Pack technology is compatible with other packaging systems. A series of advanced functions, such as the application of patented systems for transferring sachets and devices for authentication (CRF 21 Part I I), serialization and traceability of packages, as well as storage of production lot data, complete our offer.



Dosing systems



Patented Universal Pack dosing systems are the result of deep knowledge of the physical characteristics of materials handled (liquids, pastes, gels, powders, granules and tablets) and of the quality and accuracy standards of the pharmaceutical industry. All our products are analysed in our in-house laboratory and are inserted in a database that is constantly updated and that is at the disposal of the R&D department for tests on pilot devices under development. Touch screen technology installed on the weighing and dosing units grants repeatability of all parameters.



Accurate and stable

Universal Pack machines are designed and built to guarantee high standards of accuracy and stability. They can accommodate different dosing units with micrometric dynamic or static weighing systems (electronic scales provide immediate feedback to the dosing unit that is therefore automatically adjusted) allowing for maximum dosing accuracy. They are equipped with sophisticated CIP systems for cleaning and each mechanical part in contact with the product is made using certified and traceable materials. All machines components must go through and pass very strict quality control checks before being declared suitable for assembly by the in-house Quality Control Centre.

Complete packaging lines for stick-packs

- High production speed
- Maximum efficiency, versatility and reliability
- Simple and intuitive use
- Optimal accessibility
- Preventive maintenance
- Hygienic design concept



Synthesis Alfa fully automatic lines for primary packaging in stick-packs and secondary packaging in cartons are tailor-made to guarantee a high production efficiency in the smallest work space possible.

Thanks to the use of latest generation technology and to a compact and ergonomic design, they can be run by one operator alone.

Complete packaging lines for 4-side-seal sachets

- High production speed
- Maximum efficiency and reliability
- Simple and intuitive use
- Quick size changeovers
- Optimal accessibility
- Preventive maintenance
- Hygienic design concept



• Sachet machine

• Counting and stacking unit

• Carton machine

Synthesis Theta fully automatic lines for primary packaging of 4-side-seal sachets and secondary packaging in cartons are tailor-made to guarantee a high production efficiency in the smallest work space possible.

The simple and ergonomic design, combined with a state of the art manufacturing process, allows us to build reliable technologies that are easy to run even by one operator only.



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